



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	09/868,442
Filing Date	07/24/2001
First Named Inventor	Samir S. Mitragotri
Art Unit	3736
Confirmation No.	1231
Examiner Name	Jonathan M. Foreman

Sheet	1	of	1	Attorney Docket Number	62803.000008
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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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*Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
JF		WO	97/30749	08/28/1997	Elstrom et al.			
JF		WO	98/17184	04/30/1998	Ball			

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION

7/5/05



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Application Number	09/868,442
Filing Date	07/24/01
First Named Inventor	Samir Mitragotri et al.
Art Unit	3736
Confirmation No.	4234

Examiner Name	Jonathan M. Foreman
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Sheet	1	of	1	Attorney Docket Number	62803.000008
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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JK	1	10/792,862	03/05/2004	Samir Mitragotri et al.	
JK	2	2004 0039418	02/26/2004	Elstrom et al.	
JK	3	2004 0171980	09-02-2004	Mitragotri et al.	

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Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION
JK	4	Office Action dated October 6, 2003 from U.S. Application No. 09/979,096, Custer et al., filed March 11, 2002.	
	5	Amendment dated March 5, 2004 from U.S. Application No. 09/979,096, Custer et al., filed March 11, 2002.	
	6	Notice of Allowance dated August 27, 2004 from U.S. Application No. 09/979,096, Custer et al., filed March 11, 2002.	
	7	Preliminary Amendment dated July 6, 2004 from U.S. Application No. 10/792,886, Mitragotri et al., filed March 5, 2004.	
JK	8	Preliminary Amendment dated March 5, 2004 from U.S. Application No. 10/792,862, Mitragotri et al., filed March 5, 2004.	

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PATENT
ATTORNEY DOCKET: 62803.000008

3736
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 09/868,442 Confirmation No.: 1231
Applicant : Samir Mitragotri et al.
Filed : 07/24/01
Title : METHODS AND APPARATUS FOR ENHANCEMENT OF
TRANSDERMAL TRANSPORT
TC/Art Unit : 3736
Examiner: : Jonathan M. Foreman

Docket No. : 62803.000008
Customer No. : 21967

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants are submitting herewith copies of the references listed on the attached Form PTO-SB/08A for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(c), this Information Disclosure Statement is being submitted prior to the mailing date of any of a final action, a notice of allowance, or an action that otherwise closes prosecution, with a check for \$180.00 to cover the fee under 37 C.F.R. § 1.17(p). In the event that any additional fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

METHODS AND APPARATUS FOR ENHANCEMENT OF
TRANSDERMAL TRANSPORT

Application Number: 09/868442



Confirmation Number: 1231

First Named Applicant: Samir Mitragotri et al

Attorney Docket Number: 62803.000008

Search string: (3828769 or 4020830 or 4144317 or 4457748
or 4657543 or 4683242 or 4702732 or 4779806
or 4786277 or 4866050 or 4933062 or 4948587
or 4953552 or 4970145 or 4981779 or 4986271
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US Patent Documents

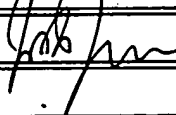
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

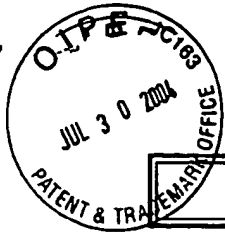
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
✓	1	3828769	1974-08-13	Mettler			
✓	2	4020830	1977-05-03	Johnson et al.			
✓	3	4144317	1979-03-13	Higuchi et al.			
✓	4	4457748	1984-07-03	Lattin			
✓	5	4657543	1987-04-14	Langer et al.			
✓	6	4683242	1987-07-28	Poser			
✓	7	4702732	1987-10-27	Powers et al.			
✓	8	4779806	1988-10-25	Langer et al.			
✓	9	4786277	1988-11-22	Powers			
✓	10	4866050	1989-09-12	Ben-Amoz			

0F	11	4933062	1990-06-12	Shaw et al.
	12	4948587	1990-08-14	Kost et al.
	13	4953552	1990-09-04	DeMarzo
	14	4970145	1990-11-13	Bennetto et al.
	15	4981779	1991-01-01	Wagner
	16	4986271	1991-01-22	Wilkins
	17	5001051	1991-03-19	Miller et al.
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	19	5050604	1991-09-24	Reshef et al.
	20	5069908	1991-12-03	Henley
	21	5082786	1992-01-21	Nakamoto
	22	5086229	1992-02-04	Rosenthal et al.
	23	5118404	1992-06-02	Saito
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	38	5362307	1994-11-08	Guy et al.
	39	5364838	1994-11-15	Rubsamen
	40	5405366	1995-04-11	Fox et al.
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	44	5534496	1996-07-09	Lee et al.
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0Y	46	5569198	1996-10-29	Racchini

JF	47	5573778	1996-11-12	Therriault et al.
JF	48	5582184	1996-12-10	Erickson et al.
JF	49	5646221	1997-07-08	Inagi et al.

Signature

	Examiner Name	Date
		3/15/05



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Application Number: 09/868442



Confirmation Number: 1231

First Named Applicant: Samir Mitragotri et al

Attorney Docket Number: 62803.000008

Search string: (5667487 or 5730714 or 5735273 or 5746217
or 5771890 or 5820570 or 5851438 or 5885211
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or 4732153).pn.

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US Patent Documents

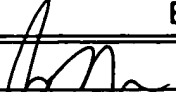
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

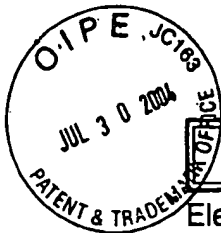
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JP	1	5667487	1997-09-16	Henley			
	2	5730714	1998-03-24	Guy et al.			
	3	5735273	1998-04-07	Kurnik et al.			
	4	5746217	1998-05-05	Erickson et al.			
	5	5771890	1998-06-30	Tamada			
	6	5820570	1998-10-13	Erickson et al.			
	7	5851438	1998-12-22	Chan			
	8	5885211	1999-03-23	Eppstein et al.			
	9	5902603	1999-05-11	Chen et al.			
JP	10	5906830	1999-05-25	Farinas et al			

UF	11	5961451	1999-10-05	Reber et al.
	12	5989409	1999-11-23	Kurnik et al.
	13	6002961	1999-12-14	Mitragotri et al.
	14	6009343	1999-12-28	Shain et al.
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	23	6482604	2002-11-19	Kwon
	24	6487447	2002-11-16	Weimann et al.
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	41	4309989	1982-01-12	Fahim
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	44	4557943	1985-12-10	Rosler et al
	45	4563184	1986-01-07	Korol
UF	46	4595011	1986-06-17	Phillips

JF	47	4646725	1987-03-03	Moasser
JF	48	4698058	1987-10-06	Greenfeld et al
JF	49	4732153	1988-03-22	Phillips

Signature

Examiner Name	Date
	3/15/25



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Application Number: 09/868442



Confirmation Number: 1231

First Named Applicant: Samir Mitragotri et al

Attorney Docket Number: 62803.000008

Search string: (4767402 or 4780212 or 4787070 or 4787888
or 4820720 or 4821733 or 4821740 or 4855298
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or 4834978 or 5415629 or 20030100846).pn.

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
✓	1	4767402	1988-08-30	Kost et al			
✓	2	4780212	1988-10-25	Kost et al			
✓	3	4787070	1988-11-22	Suzuki et al			
✓	4	4787888	1988-11-29	Fox			
✓	5	4820720	1989-04-11	Sanders et al			
✓	6	4821733	1989-04-18	Peck			
✓	7	4821740	1989-04-18	Tachibana et al			
✓	8	4855298	1989-08-04	Yamada et al			
✓	9	4863970	1989-09-05	Patel et al			
✓	10	4953565	1990-09-04	Tachibana et al			
✓	11	5006342	1991-04-09	Cleary et al			

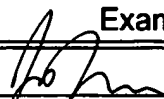
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	13	5016615	1991-05-21	Driller et al
	14	5076273	1991-12-31	Schoendorfer et al
	15	5078144	1992-01-07	Sekino et al
	16	5115805	1992-05-26	Bommannan et al
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	26	5386837	1995-02-07	Sterzer
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	28	5405614	1995-04-11	DAngelo et al
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	41	4860058	1989-08-22	Kobayashi et al
	42	5019034	1991-05-28	Weaver et al
	43	5171215	1992-12-15	Flanagan
	44	5445611	1995-08-29	Eppstein et al
	45	4834978	1989-05-30	Nuwayser
JF	46	5415629	1995-05-16	Henley

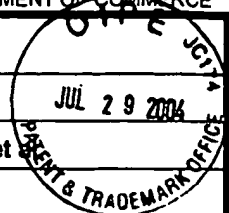
US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
JA	1	20030100846	2003-05-29	Custer et al			

Signature

Examiner Name	Date
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Sheet	1	of	11	Attorney Docket Number	62803.000008
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UF	1	10/411,156			
UF	2	10/792,886			
UF	3	10/792,862			

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
JK	4	CA	1,324,051	11/09/1993	Kost et al.			
	5	CA	2,075,624	11/18/1997	Bommannan et al.			
	6	CA	2,167,393	01/26/1995	Azim			
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	12	EP	0 043 738	01/13/82				
	13	EP	0 245 535	11/19/1987	Langer et al.			X
	14	EP	0 246 341	11/25/1987	D'Amore et al.			
	15	EP	0 247 850	12/02/1987	Bennetto et al.			
	16	EP	0 278 074	08/17/1988	Tachibana et al.			
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	18	EP	0 368 408	05/16/1990	Benecke et al.			
	19	EP	0 453 283	10/23/1991	Joseph			
	20	EP	0 495 531	07/22/1992				
JP	21	EP	0 513 789	11/19/1992	Ito			

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Sheet 2 of 11

Attorney Docket Number 62803.000008

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JF	22	EP 0 612 525	08/31/1994			
	23	EP 0 625 360	11/23/1994	Tachibana et al.		
	24	EP 0 649 628	04/26/1995	Schoonen et al.		
	25	EP 0 736 305	10/09/1996	Bommannan et al.		
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	31	JP 62133937	06-17-1987	Watanabe		X
	32	UK 1 577 551	10/22/1980	Fahim		
	33	USSR 445433	11/29/1974			X
	34	USSR 506421	02/07/1978	Volkov et al.		
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	36	USSR 591186	01/26/1978	Serov et al.		
	37	USSR 910157	03/09/1982	Loshcov et al.		
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	39	WO 00/35351	06/22/2000	Mitragotri et al.		
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	45	WO 90/15568	12/27/90	Stanley et al.		
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JF	47	WO 92/13567	08-20-1992	Domb et al.		

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Sheet 3 of 11 Attorney Docket Number 62803.000008

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION
JF	48	WO 92/14449	09/03/1992	Maniar et al.		
	49	WO 93/05096	03-18-1993	Domb et al.		
	50	WO 93/20745	10/28/1993	Korf et al.		
	51	WO 94/05368	08/28/1992	Kohori et al.		X
	52	WO 94/08655	04/28/1994	Lipkovker		
	53	WO 95/02357	01/26/1995	Azimi		
	54	WO 96/00110	01/04/1996	Bhayani et al.		
	55	WO 97/02811	01/30/1997	Abraham		
	56	WO 97/04832	02/13/1997	Mitragotri		
	57	WO 97/10499	03/20/1997	Kurnik et al.		
	58	WO 97/13548	04/17/97	Edwards		
	59	WO 97/18851	05/29/1997	Tachibana		
	60	WO 97/24059	07/10/1997	Kurnik et al.		
	61	WO 97/30628	08/28/1997	Shain et al.		
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JF	68	WO 99/34858	07/15/1999	Liu et al.		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	09/868,442
Filing Date	07/24/01
First Named Inventor	Samir Mitragotri et al.
Art Unit	3736
Confirmation No.	1231
Examiner Name	Jonathan M. Foreman

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JF	70	✓ Albin et al., "Theoretical and Experimental Studies of Glucose Sensitive Membranes," 6 Journal of Controlled Release 267-291 (1987).		
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JF	82	Philip S. Burton et al., "Metabolism and Transport of Peptide Across Intestinal Mucosa," 14 Proceed. Intern. Symp. Control. Rel. Bioact. Mater 6 (Controlled Release Society, Inc. 1987).	
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JF	94	Eppstein, D.A. et al., "Applications of Liposome Formulations for Antimicrobial/Antiviral Therapy," Liposomes as Drug Carriers 311-323 (John Wiley & Sons 1988).	
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JF	106	S.B. Kasting et al., "Prodrugs for Dermal Delivery: Solubility, Molecular Size, and Functional Group Effects," Prodrugs: Topical and Ocular Delivery 117-161 (1992).	
	107	A.D. Keith and W. Snipes, "Polymeric Carriers for Active Agents," Transdermal and Related Drug Delivery Systems pp. 223-279 (D.A. Jones ed. 1984).	
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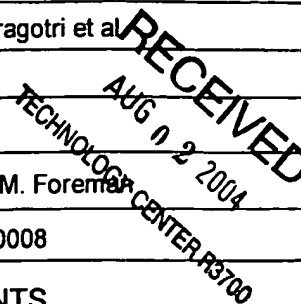
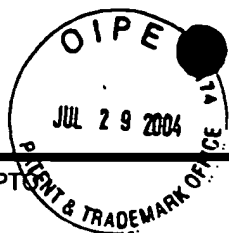
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JF	118	✓ Liu et al., "Experimental Approach To Elucidate the Mechanism of Ultrasound-Enhanced Polymer Erosion and Release of Incorporated Substances," 25 Macromolecules 123-128 (1992).	
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JF	130	D. Monti et al., "Comparison of the effect of ultrasound of chemical enhancers on transdermal permeation of caffeine and morphine through hairless mouse skin in vitro," International J. Pharmaceuticals, Vol. 229, Nos. 1-2, pp. 131-137 (Oct. 2001).		
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JF	154	Tyle and Agrawala, "Drug Delivery by Phonophoresis," Pharm. Res. 6:355-361 (1989).	
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